VERSION WITH MARKINGS TO SHOW CHANGES

IN THE SPECIFICATION:

Page 11, line 6, change "12" to --14--.

IN THE CLAIMS:

- 9. (amended) An apparatus for controlling the power at the output of an internal combustion engine coupled to a transmission wherein the rate of change of ratio of said transmission is controllable, comprising:
- (a) an electric motor positioned between said engine and said transmission; and
- (b) a controller which varies torque output of said electric motor and the rate of change of the ratio of said transmission;
- (c) wherein, for any given speed, the controller sets engine power output in accordance with predetermined operating characteristics[.]; and
 - (d) wherein said electric motor varies engine power output.
- 19. (amended) A control apparatus for an internal combustion engine driving a continuously variable transmission and a driveshaft coupled to said continuously variable transmission wherein the rate of change of ratio of said continuously variable transmission is controllable, comprising:
 - (a) a generator/motor mechanically coupled to and driven by said engine;
 - (b) a generator/motor controller electrically connected to said generator;

- (c) a motor/generator mechanically coupled to said drive shaft;
- (d) a battery electrically connected to said generator/motor controller and said motor/generator controller;
- (e) said generator/motor, said generator/motor controller, said motor/generator, said motor/generator controller, and said battery comprising said continuously variable transmission; and
- (f) a controller which varies torque output of said generator/motor and the rate of change of the ratio of said continuously variable transmission;
- (g) wherein, for any given speed, said controller sets engine power output in accordance with predetermined operating characteristics; and
 - (h) wherein said generator/motor varies engine power output.
- 20. (amended) A control apparatus for a vehicle having an internal combustion engine driving a transmission, wherein said transmission has an output driving a first wheel at a first end of said vehicle wheel, and wherein the rate of change of ratio of said transmission is controllable, comprising:
 - (a) an electric motor driving a second wheel at a second end of said vehicle;
 - (b) a motor controller electrically connected to said motor;
 - (c) said motor coupled to said transmission through a road surface; and
- (d) control means for varying torque output of said motor and for varying the rate of change of the ratio of said continuously variable transmission;
- (e) wherein, for any given speed, said control means sets engine power output in accordance with predetermined operating characteristics; and

- (f) wherein said electric motor varies engine power output.
- 21. (amended) A control apparatus for a vehicle having an <u>internal combustion</u> engine, an electric motor <u>coupled to said engine and</u> driving a transmission, and a battery system powering the electric motor, comprising:

a motor controller electrically connected to said electric motor;

wherein said motor controller varies torque output of said motor to be on an ideal operating line as determined by empirical testing of the electric motor and battery system; and

wherein said electric motor varies engine power output.

- 22. (amended) A control apparatus for a vehicle having an internal combustion engine and an electric motor, wherein said internal combustion engine and said electric motor are coupled to a continuously variable transmission, and wherein the rate of change of ratio of said continuously variable transmission is controllable, comprising:
- (a) an engine controller mechanically connected to said internal combustion engine;
 - (b) a motor controller electrically connected to said electric motor; and
- (c) control means associated with said engine controller and said motor controller for varying torque output of said motor and for varying rate of change of the ratio of said transmission;
- (d) wherein, for any given speed, said control means sets engine power output in accordance with predetermined operating characteristics; [and]

- (e) wherein said control programming includes hybrid, electric, and braking modes; and
 - (f) wherein said electric motor varies engine power output.